

Claims

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1. A method including
- simulating a plurality of dynamically-allocated threads using a statically-
- allocated thread; and
- maintaining state information regarding each dynamically-allocated thread
- maintained within said statically-allocated thread.
2. A method as in claim 1, including maintaining, for a routine capable
- of being suspended or interrupted, a set of entry points into which said routine is capable
- of being re-entered after said suspension or interruption.
3. A method as in claim 1, including generating said set of entry points
- in response to one or more programming macros.
4. A method as in claim 1, including maintaining high concurrency
- among threads without maintaining a substantial amount of state information regarding
- simulated threads.
5. A method as in claim 1, wherein said state information includes a
- relatively small procedure call stack for the simulated thread.

1 6. A method as in claim 1, wherein said state information includes a
2 relatively small collection of local variables and other state information for the simulated
3 thread.

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5 7. Apparatus including a file server system having a statically-allocated
6 thread including a plurality of simulated dynamically-allocated threads, said statically-
7 allocated thread including state information regarding each said simulated thread.

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9 8. Apparatus as in claim 7, including a routine capable of being sus-
10 pended or interrupted, said routine having a set of entry points into which said routine is
11 capable of being re-entered after said suspension or interruption.

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13 9. Apparatus as in claim 8, wherein said set of entry points are respon-
14 sive to one or more programming macros.

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16 10. Apparatus as in claim 7, wherein said state information includes a
17 relatively small procedure call stack for the simulated thread.

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19 11. Apparatus as in claim 7, wherein said state information includes a
20 relatively small collection of local variables and other state information for the simulated
21 thread.

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